

## Product datasheet for **SC108427**

### ELMO2 (NM\_133171) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | ELMO2 (NM_133171) Human Untagged Clone |
| Tag:                      | Tag Free                               |
| Symbol:                   | ELMO2                                  |
| Synonyms:                 | CED-12; Ced-12A; CED12; ELMO-2; VMPI   |
| Mammalian Cell Selection: | None                                   |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>       |
| E. coli Selection:        | Ampicillin (100 ug/mL)                 |



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**Fully Sequenced ORF:** >OriGene ORF within SC108427 sequence for NM\_133171 edited (data generated by NextGen Sequencing)

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ATGCCACCACCGTCAGACATTGTCAAAGTGGCCATTGAGTGGCCAGGTGCTAACGCCAG
CTCCTTGAAATCGACCAGAAACGGCCCTGGCATCCATTATCAAGGAAGTTTGTGATGGG
TGGTCGTTGCCAAACCCAGAGTATTATACCCTCCGTTATGCAGATGGTCCTCAGCTGTAC
ATCACCGAACAGACTCGCAGTGACATTAAGAATGGGACAATCTTACAACCTGGCTATCTCC
CCGTCCCGGGCTGCACGCCAGCTGATGGAGAGGACCCAGTCATCCAACATGGAGACCCGG
CTGGATGCCATGAAGGAGCTGGCCAAGCTCTCTGCCGACGTGACTTTCGCTACTGAGTTC
ATCAACATGGATGGCATCATTGTGCTGACAAGGCTCGTGAAAAGTGAACCAAGCTCTTG
TCCCACTACAGTGAGATGCTGGCATTACCCTGACTGCCTTCTAGAGCTCATGGACCAT
GGCATTGTCTCCTGGGACATGGTTTCAATCACCTTTATTAAGCAGATTGCAGGGTATGTG
AGCCAGCCCATGGTGGACGTGTCAATCCTTCAGAGGTCCCTGGCCATCCTGGAGAGCATG
GTCTTGAACAGCCAGAGTCTGTACCAGAAGATAGCCGAGGAAATCACCGTGGGACAGCTC
ATCTCACACCTCCAGGTCTCAACCAGGAGATTACAGACCTACGCCATTGCACTGATTAAT
GCACTTTTTCTGAAGGCTCCTGAGGACAAACGACAGGATATGGCAAATGCATTTGCACAG
AAGCATCTCCGGTCTATAATCCTGAATCATGTGATCCGAGGGAACCGCCCATCAAAACT
GAGATGGCCCATCAGCTATATGCTTCAAGTCCTAACCTTTAACCTTCTGGAAGAAAGG
ATGATGACCAAGATGGACCCCAATGACCAGGCTCAAAGGGACATCATATTTGAACTGAGG
AGGATTGCATTTGACGCAGAGTCTGATCCTAGCAATGCCCTGGGAGTGGGACCGAAAAA
CGCAAAGCCATGTACACAAAGGACTACAAAATGCTGGGATTTACCAACCACATCAATCCA
GCCATGGACTTTACCCAGACTCCTCCTGGAATGCTGGCCTTGACAACATGCTGTACTTG
GCTAAAGTCCACCAGGACACCTACATCCGGATTGTCTTGGAGAACAGTAGCCGGGAAGAC
AAACATGAATGCCCTTTGGCCGAGTCCATTGAGCTACCAAAAATGCTCTGTGAAATC
CTGCAGGTTGGGAACTACCAAATGAAGGACGCAATGACTACCACCCGATGTTCTTTACC
CATGACCGAGCCTTTGAAGAGCTCTTTGGAATCTGCATCCAGCTGTTGAACAAGACCTGG
AAGGAGATGAGGGCAACAGCAGAGGACTTCAACAAGGTTATGCAAGTCGTCGAGAGCAA
ATCACTCGAGCTTTGCCCTCAAACCAACTCTTTGGATCAGTTCAAGAGCAAATTCGCT
AGCCTGAGTTACTCTGAGATTCTACGACTGCGCCAGTCTGAGAGGATGAGTCAGGATGAC
TTCCAGTCCCCGCAATTGTGGAGCTGAGGGAGAAGATCCAGCCCGAGATCCTTGAGCTG
ATCAAGCAGCAGCGCCTGAACCGGCTCTGTGAGGGCAGCAGCTTCCGAAAGATTGGGAAC
CGCCGAAGGCAAGAACGGTTCTGGTACTGCCGGTTGGCACTGAACCACAAGGTCTTTCAC
TATGGTGACTTGGATGACAACCCACAAGGGGAGGTGACATTTGAATCCCTGCAGGAGAAA
ATTCCTGTTGCAGACATTAAGGCCATTGTCACTGGGAAAGATTGTCCCCACATGAAAAGAG
AAAAGTGTCTGAAACAGAAACAAGGAGGTGTTGGAATTGGCCTTCTCCATCCTGTATGAC
CCTGATGAGACCTTAAACTTCATCGCACCTAATAAATATGAGTACTGCATCTGGATTGAC
GGCCTCAGTGCCCTTCTGGGAAGGACATGTCCAGTGAGCTGACCAAGAGTGACCTGGAC
ACCCTGCTGAGCATGGAGATGAAGCTGCGGCTCCTGGACCTGGAGAACATCCAGATTCCC
GAAGCCCCACCCCATCCCCAAGGAGCCAGCAGCTATGACTTTGTCTATCACTATGGC
TGA
    
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Clone variation with respect to NM\_133171.3  
1980 t=>c

|                                     |   |
|-------------------------------------|---|
| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for NM_133171 unedited</p> <pre> AGGGTTACATTAGTATACGATCATATAGGCGGCCGCGAAATTCGCACGAGGCCTAGGTCT GCGCCCTGGNAGGAGGTGTAGGAAANAGGTACATGGNAGAACAAGTTTGTCAATCCGTCT GAACTTCAGTTGCCTTACCTGTAAGGCAGCCGTGTCTGTGTTTTTGTCTCGCAGAATTAG AGCCCATTTGGGAACGATGCCACCACCGTCAGACATTGTCAAAGTGGCCATTGAGTGGCCA GGTGCTAACGCCAGCTCCTTGAATCGACCAGAAACGGCCCTGGCATCCATTATCAAG GAAGTTTGTGATGGGTGGTGGTTCGTTGCCAAACCCAGAGTATTATACCCTCCGTTATGCAGAT GGTCTCAGCTGTACATCACCGAACAGACTCGCAGTGACATTAAGAATGGGACAATCTTA CAACTGGCTATCTCCCCGTCCCGGGCTGCACGCCAGCTGATGGAGAGGCCAGTCATCC AACATGGAGACCCGGCTGGATGCCATGAAGGAGCTGGCCAAGCTCTGCGGACGTGACT TTCGCTACTGAGTTCATCAACATGGATGGCATCATTGTGCTGACAAGGCTCGTGGAAAGT GGAACCAAGCTCTTGTCCACTACAGTGAGATGCTGGCATTACCCTGACTGCCTNCTA GAGCTCATGGACCATGGCATTGTCTCCTGGACATGGTTTCAATCACCTTTATTAAGCAG ATTGCAGGGTATGTGAGCCAGCCATGGTGGACGTGTCAATCCTTCAGAGTCCCTGGCCA TNCTGGAGAGCATGGTCCTTGACAGCCAGAGTCTGTACCAGAAGATAGCTCGAGGAATCA CCGGGGGACAGCTCATCTNACACCTCCAGCTTCCACCAGGAGATTACAGACTACGCCATT GCACT </pre>       |
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_133171 unedited</p> <pre> NGGGTTCAGCTATGNACCCGCGGCCGCAANCTAGNGATCGGTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTACCTGAAAGAGTATTTATTTGAAAACATGGTTA CTGACAGGAAGCTCCTGGCTGCTCTCTGGTTACAATCTTGGCTCACAACCTGGAAGTGTTA CATACTTTTTACTTCCCCCAATTTTATTTTCCCAAGGTTCCCTCCTAAGATAGGTAG ATCTTATATAAATATATATACCCCTCTGTATAAGTATGGCCTATAGTAATGAAAATATAT AGTACACTCTTCATTGGGTAGTACCTACCATGCCAGGCCACCAATACTGAATGCCAATGT GCTAACGTATGTCCAGGGAAAAAGGCTGTGTGTGGTTTACAAGTGCTGCAGCACCAGG GAAGCCCCACTGGCACAGGTGTGGCCTCAGCCGGCCTCAGCCAGCTCCCTGAAATCATGG CCAATGGCAGAAACCATAGCACTAGGAAGGGAAGGCCAACTTCTGGGGTCTGGAAGGCC AAAGGAAAGCAAACCTGGAGGGGGCTGCAATTCAGGTTAGGGGAGATTTCTCTGAGGAA GGAAAAGGTATTAATGTGGGGGAAGAGCAGTAAAATCTAGTGACCTCACCACAGTGTAG CCAGGCCTCAGCTGGGTTTTCCCTGCAGCGTTCTGGAGACTTAAGAGGGCAGGACTTG GCCAGGAGGTCTTTGACTTGCTGGGATGAGACTGAGCGCTTGCAGGGAGAAATTTCCGTC TGCTCTGATATCTGTATGGGCCACAGAGATCTGGTGGCTCTAAAGACCGAGATGTTAGAG CCAACCTCAGAAGCAGCAACGTCTTGCCCATATGAAGCTGGAGTGAGCCCTCATCAAAA AAGACAAAAC </pre> |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | NM_133171   |
| <b>Insert Size:</b>                 | 4000 bp   |
| <b>OTI Disclaimer:</b>              | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  |
| <b>Components:</b>                  | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).  |

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_133171.2](#), [NP\\_573403.1](#)

**RefSeq Size:** 3722 bp

**RefSeq ORF:** 2163 bp

**Locus ID:** 63916

**UniProt ID:** [Q96JJ3](#)

**Cytogenetics:** 20q13.12

**Domains:** DUF609

**Gene Summary:** The protein encoded by this gene interacts with the dedicator of cyto-kinesis 1 protein. Similarity to a *C. elegans* protein suggests that this protein may function in phagocytosis of apoptotic cells and in cell migration. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]  
Transcript Variant: This variant (1) encodes the longer isoform (a). Variants 1 and 2 encode the same isoform.